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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,184	03/24/2004	Raghavan Rajagopalan	1486.1:H US (073979.68)	4580	
27805 THOMPSON H	7590 02/05/200 IINE L.L.P.	9	EXAMINER		
Intellectual Prop	perty Group	PACKARD, BENJAMIN J			
P.O. BOX 8801 DAYTON, OH		ART UNIT	PAPER NUMBER		
			1612		
			MAIL DATE	DELIVERY MODE	
			02/05/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	No.	Applicant(s)		
Office Action Summary		10/808,184	10/808,184		RAJAGOPALAN ET AL.	
		Examiner		Art Unit		
		Benjamin Pa	ckard	1612		
The MAILING DATE of t Period for Reply	his communication ap	ppears on the c	over sheet with the o	correspondence ad	ddress	
A SHORTENED STATUTORY WHICHEVER IS LONGER, FI - Extensions of time may be available und after SIX (6) MONTHS from the mailing - If NO period for reply is specified above - Failure to reply within the set or extende Any reply received by the Office later the earned patent term adjustment. See 37	ROM THE MAILING I ler the provisions of 37 CFR 1 date of this communication. the maximum statutory period d period for reply will, by statu an three months after the mail	DATE OF THIS 1.136(a). In no event, and will apply and will e ute, cause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•	
Status						
Responsive to commun This action is FINAL . Since this application is closed in accordance with	2b)⊡ Th in condition for allow	nis action is nor vance except fo	r formal matters, pro		e merits is	
Disposition of Claims						
4)) <u>13-20</u> is/are withdra lowed. <u>7</u> is/are rejected. pjected to.	awn from consi				
_	stad ta butba Evani					
9) The specification is object 10) The drawing(s) filed on _ Applicant may not request Replacement drawing shee 11) The oath or declaration i	is/are: a) ☐ acthat any objection to thet(s) including the corre	ccepted or b) ne drawing(s) be nection is required	held in abeyance. See if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	, ,	
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-862) Notice of Draftsperson's Patent Dra 3) Information Disclosure Statement(s Paper No(s)/Mail Date	wing Review (PTO-948)	_) Interview Summary Paper No(s)/Mail Da) Notice of Informal F) Other:	ate		

DETAILED ACTION

Applicants' arguments, filed 10/23/08, have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 112 – Written Description

Claims 11, 12, and 21-27 were rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.

This rejection is maintained.

Applicants submitted a declaration from an independent third party to address the issues, namely that a person of ordinary skill in the art would know (1) the identity of a "bombesin receptor binding molecule" by structure as well as by function, (2) whether and where a "receptor binding molecule" would attach to a methane group, (3) whether the receptor binding molecule must have a peptide chain, and (4) if it did not have a peptide chain, how the receptor binding molecule would bind.

On page 2 of the declaration, where Dr. Buolamwini states "It is my opinion that putting the invention together and using it as described requires a level of experimentation that is reasonable for one skilled in the art; it is not 'undue'." The affidavit then goes on to describe how it would be easy to determine which peptides are effective for binding to bonbesin receptors. It is noted, this is a written description rejection, not a scope of enablement, where undue experimentation is not a factor to be

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considered. For the written description requirement, the question is whether a sufficient number of species are disclosed such that one of skill in the art would envision what compounds fit this class. Similar to the facts of <u>Univ. of Rochester v G.D. Searle</u>, the general class of peptides is known and a limited number of bombesin receptor binding molecules are known, but there is no description that distinguishes the broad class of peptides, or other possible molecules, from those which do not have the required function. Where such a link lacks, experimentation would be required, as admitted by Dr. Buolamwini, evidencing the Applicants were not in possession of the broader class of compounds of the genus.

Claim Rejections - 35 USC § 103

Claims 11, 12, and 21-27 were rejected under 35 U.S.C. 103(a) as being unpatentable over Sykes et al (US 6,313,274) in view of Pinney et al (Biochemistry, Vol 30, No 9 1991, pp 2421-2431).

This rejection is maintained.

Applicants assert Sykes teaches away from any other use of arylaizes because they disclose it has been used to immobilize an antigen or antibody on a support.

Examiner notes that while Sykes et al differentiates from Noujaim based on the photoactivation of the antibody rather than the aromatic azido derivative, such a limitation is not in the instant claims. The instant claims are simply directed to a phototherapy, generally, which could include the photoactivation of either component. Thus, one would still be motivated to apply the teaching of Noujaim as disclosed by

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Sykes to attach an aromatic azido derivative for the purpose of making a compound where the azide may be photolyzed after accumulating on the receptor.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Packard whose telephone number is 571-270-3440. The examiner can normally be reached on M-R 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached on 571-272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin Packard/ Examiner, Art Unit 1612

> /Frederick Krass/ Supervisory Patent Examiner, Art Unit 1612